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October 7, 1992

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Washington, DC 20460

Attn: Section 8(e) Coordinator (CAP Agreement)

Re: <u>CAP Agreement Identification No. 8ECAP-0110</u>

Dear Sir or Madam:

Union Carbide Corporation ("Union Carbide") herewith submits the following report pursuant to the terms of the TSCA §8(e) Compliance Audit Program and Union Carbide's CAP Agreement dated August 14, 1991 (8ECAP-0110). This report describes an environmental toxicity study (<u>Daphnia Magna</u>) with UC 54012 25WP (N-[[(4-chlorophenyl)amino]-carbonyl]-2,6-difluorobenzamide; CASRN 35367-38-5.

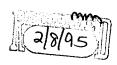
"Acute Toxicity of uC 54012 25 WP to <u>Daphnia magna</u>", Analytical Bio-Chemistry Laboratories, Inc., Static Acute Tloxicity Report No. 34978, August 27, 1986.

A complete summary of this report is attached.

Previous TSCA Section 8(e) or "FYI" Submission(s) related to this substance are:

(None)

Previous PMN submissions related to this substance are: (None)



7

This information is submitted in light of EPA's current guidance. Union Carbide does not necessarily agree that this information reasonably supports the conclusion that the subject chemical presents a substantial risk of injury to health or the environment.

In the attached report the term "CONFIDENTIAL" may appear. This precautionary statement was for internal use at the time of issuance of the report. Confidentiality is hereby waived for purposes of the needs of the Agency in assessing health and safety information. The Agency is advised, however, that the publication rights to the contained information are the property of Union Carbide.

Yours truly,

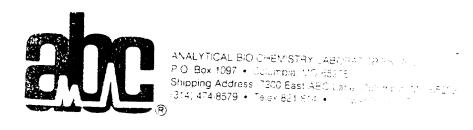
William C. Kuryla, Ph.D. Associate Director Product Safety (203/794-5230)

WCK/cr

Attachment (3 copies of cover letter, summary, and report)

## SUMMARY

## **BEST COPY AVAILABLE**



Static Acute Toxicity Report #34978

Acute Toxicity of UC 54012 25WP to Daphnia magna

## Submitted To:

Union Carbide Agricultural Products Company, Inc. Attn: Dr. Thomas L. Merriam P.O. Box 12014, T. W. Alexander Drive Research Triangle Park, North Carolina 27709

August 27, 1986

## SUMMARY

#### RESULTS

Table 2 presents the predicted LC<sub>50</sub> values and 95-percent confidence intervals for UC 54012 25WP. The 24- and 48-hour LC<sub>50</sub> values for UC 54012 25WP were 0.99 and 0.26 mg/l. All results were based on the nominal concentrations of 0.10, 0.18, 0.32, 0.56, 1.0, 1.8 and 32  $\mu g/l$ . The no-effect concentration based on the lack of mortality and abnormal effects was 0.10  $\mu g/l$  after 48 hours. The abnormal effects of mortality, quiescence, surfacing, erratic locomotion and/or daphnids lying on the bottom of test vessels were observed in the 0.18, 0.32, 0.56, 1.0, 1.8 and 32  $\mu g/l$  test concentrations.

Table 3 presents the mortality rate and water quality parameters measured during the test. The dissolved oxygen concentrations ranged between 8.4 and 8.6 mg/l. These values represented 91 and 93-percent saturation at  $20^{\circ}\text{C}$ , respectively, and were considered adequate for testing (1). The pH values of the treated chambers were consistent with the control and ranged from 8.1 to 8.2.

The study was conducted following the intent of the Good Laboratory Practice Regulations (5) and the final report was reviewed by Analytical Bio-Chemistry Laboratories' Quality Assurance Unit. All original raw data were provided to Union Carbide Agricultural Products Company, Inc., with a copy retained at Analytical Bio-Chemistry Laboratories.

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Static Acute Toxicity Report #34978

Acute Toxicity of UC 54012 25WP to Daphnia magna

### Submitted To:

Union Carbide Agricultural Products Company, Inc. Attn: Dr. Thomas L. Merriam P.O. Box 12014, T. W. Alexander Drive Research Triangle Park, North Carolina 27709

August 27, 1986

## **BEST COPY AVAILABLE**

Submitted By:	Analytical Bio-Chemistry Laboratories, 7200 East ABC Lane P. O. Box 1097 Columbia, Missouri 65205 (314) 474-8579	Inc.
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	David Burgess Biologist II	8/28/86 Date
	Lee T. Schoen Biologist I	<u>B/38/86</u> Date
Approved By:		
organist by	Alan D. Forbis Study Director/ Supervisor, Invertebrate and Bioconcentration Investigations	\$725756 Date
	Phillip M. Buckler Quality Assurance Supervisor	Date
	Calify Horson	8-28-86
	Carl M. Thompson Aquatic Toxicology Manager	Date

/1rm

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### SUMMARY

The acute toxicity of UC 54012 25WP to <u>Daphnia magna</u> was assessed using the methods outlined by the Committee on Methods for Toxicity Tests with Aquatic Organisms. Water quality parameters of temperature, dissolved oxygen and pH were measured at the termination of the test and were within acceptable limits.

The results of the 48-hour static <u>Daphnia</u> <u>magna</u> toxicity study are summarized below. All reported values were based upon nominal concentrations.

Compound	48-hour LC <sub>50</sub> (95% C.I.)		
UC 54012 25WP	0.26 µg/l (0.21-0.31 µg/l)		

The no-effect level observed for UC 54012 25WP was 0.10  $\mu g/l$  after 48 hours, since mortality and abnormal effects occurred at all test concentrations.

#### INTRODUCTION

This definitive static bioassay was performed by the Aquatic Toxicology Division of Analytical Bio-Chemistry Laboratories, Inc., Columbia, Missouri, for Union Carbide Agricultural Products Company, Inc., from August 18, 1986 to August 20, 1986. The purpose of this test was to determine the 24- and 48-hour LC $_{50}$  levels for UC 54012 25WP to Daphnia magna. The study was performed using ABC Protocol #7806 as approved by Dr. Thomas L. Merriam, Union Carbide Agricultural Products Company, Inc. on July 29, 1986.

#### METHODS AND MATERIALS

The procedures for static bioassay, as described in Methods of Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians (1) and Standard Methods for Examination of Water and Wastewater (2), were used in this experiment. The Daphnia magna used in the test were cultured at the ABC facilities. The adult Daphnia were fed algae (Selenastrum capricornutum) at least every three days prior to testing and supplemented with a suspension of fish food. The daphnids were identified to species using the taxonomic key presented by Pennak (3).

The static <u>Daphnia</u> bioassay was conducted in 250-ml glass beakers containing 200 ml of ABC aged well water with the chemical characteristics listed in Table 1. These vessels were kept at 20 ( $\pm 2.0$ ) °C in a temperature controlled area. The lighting was maintained at 50-70 footcandles on a 16-hour daylight photoperiod with 30-minute simulated dawn and dusk periods.

Initial range-finding experiments were conducted using 10  $\frac{Daphnia}{0.0010}$ , each in exposure concentrations of 0.010, 0.10 and 1.0  $\mu g/l$ ,  $\frac{Daphnia}{0.0010}$ , 0.010, 0.10, 1.0, and 0.10, 1.0, 10 and 100  $\mu g/l$ . From this information, seven concentrations in duplicate of the test compound with ten  $\frac{Daphnia}{for}$  (first instar less than 24 hours old) per beaker were selected for the definitive bioassay. These concentrations were a logarithmic series ranging from 0.10 to 3.2  $\mu g/l$  and included a control. All concentrations were observed once every 24 hours for mortality and abnormal effects such as surfacing, clumping of the daphnids together and daphnids lying on the bottom of test chambers.

The UC 54012 25WP (Lot #8-PLP-54) sample was received on July 23, 1986 as a tan powder and was stored at room temperature in the dark. Sample purity was 25.49%. Test concentrations were corrected for sample purity. All standard weights and dilutions can be found in the Appendix. Deionized water was used in the preparation of all working stock solutions.

The 24- and 48-hour  $LC_{50}$  values and corresponding 95-percent confidence limits were determined by an  $LC_{50}$  computer program developed by Stephan et al. (4). This program calculated the  $LC_{50}$  statistic and its 95-percent confidence limits using the binomial, moving average angle and probit methods because no one method is appropriate for all possible sets of data. The method of calculation selected was that which gave the narrowest confidence limits for each separate analysis.

#### RESULTS

Table 2 presents the predicted LC<sub>50</sub> values and 95-percent confidence intervals for UC 54012 25WP. The 24- and 48-hour LC<sub>50</sub> values for UC 54012 25WP were 0.99 and 0.26 mg/l. All results were based on the nominal concentrations of 0.10, 0.18, 0.32, 0.56, 1.0, 1.8 and 32  $\mu g/l$ . The no-effect concentration based on the lack of mortality and abnormal effects was 0.10  $\mu g/l$  after 48 hours. The abnormal effects of mortality, quiescence, surfacing, erratic locomotion and/or daphnids lying on the bottom of test vessels were observed in the 0.18, 0.32, 0.56, 1.0, 1.8 and 32  $\mu g/l$  test concentrations.

Table 3 presents the mortality rate and water quality parameters measured during the test. The dissolved oxygen concentrations ranged between 8.4 and 8.6 mg/l. These values represented 91 and 93-percent saturation at  $20^{\circ}\text{C}$ , respectively, and were considered adequate for testing (1). The pH values of the treated chambers were consistent with the control and ranged from 8.1 to 8.2.

The study was conducted following the intent of the Good Laboratory Practice Regulations (5) and the final report was reviewed by Analytical Bio-Chemistry Laboratories' Quality Assurance Unit. All original raw data were provided to Union Carbide Agricultural Products Company, Inc., with a copy retained at Analytical Bio-Chemistry Laboratories.

TABLE 1: Chemical Characteristics of Well Water Used by ABC's Aquatic Toxicology Division.

Parameters	Concentration
Temperature	15-20°C <sup>b</sup>
Dissolved Oxygen <sup>a</sup>	9.2-10.1 ppm <sup>b</sup>
pH	7.8-8.3 <sup>b</sup>
Hardness (CaCO <sub>3</sub> )	225-275 ppm <sup>b</sup>
Alkalinity (CaCO <sub>3</sub> )	325-375 ppm <sup>b</sup>
Conductivity	700 µmhos/cm
NO <sub>3</sub> -N	0.58 ppm
NO <sub>3</sub> -NO <sub>2</sub> -N	0.69 ppm
P0 <sub>4</sub> -P	<0.50 ppm
Aluminum	<20 ppb
Cadmium	<3 ppb
Chromium	<5 ppb
Cobalt	<5 ppb
Copper	<5 ppb
Iron	<5 ppb
Lead	<20 ppb
Nickel	<10 ppb
Silver	<5 ppb
Zinc	<1 ppb
Measured organophosphorus pesticides	<0.10 ppb
Measured organochlorine pesticides plus PCB's	<0.50 ppb

 $<sup>^{</sup>a}$ After aeration.

Sample dates: Trace elements = May 12, 1986, organophosphate and organochlorine analyses = May 12, 1986.

<sup>&</sup>lt;sup>b</sup>Represents seasonal variation, with the monthly range not exceeding 10%.

TABLE 2 Acute Toxicity of UC 54012 25WP to Daphnia magna<sup>a</sup>

	LC <sub>50</sub> (	μg/1)
Compound	24 hours	48 hours
UC 54012 25WP	0.99 <sup>(2)</sup> (0.75-1.3) <sup>b</sup>	0.26 <sup>(2)</sup> (0.21-0.31) <sup>b</sup>

 $<sup>^{</sup>a}$ Bioassay conducted at 20°C (±2.0).

The 48-hour no-effect concentration was  $0.10 \, \mu g/l$ , based on the lack of mortality and abnormal effects.

All values were rounded to two significant figures following ABC S.O.P. #8.7.

LC<sub>50</sub> calculated using:

(1) Binomial Method (3)Moving Average Method Probit Method

 $<sup>^{\</sup>mathrm{b}}$ 95% confidence limits.

TABLE 3

Mortality Rates and Water Quality Measurements During the Acute Toxicity Test of UC 54012 25WP to <a href="Daphnia">Daphnia</a> <a href="magna">magna</a>

				Water (	Quality		
Percent			0 hours		48 hours		
24 hr	48 hr	Temp.	D.O. <sup>a</sup> mg/l	$pH^{\mathbf{b}}$	Temp.	D.O. <sup>a</sup> mg/l	рН
0	0	20	8.5	8.2	20	8.5	8.2
0	0				20	8.6	8.1
0	45						
0	35						
35	100				20	8.6	8.2
65	100						
75	100						
75	100				20	8.4	8.1
	Morta  24 hr  0  0  0  35  65  75	Mortality  24 hr 48 hr  0 0  0 0  0 45  0 35  35 100  65 100  75 100	Mortality       24 hr     48 hr     C       0     0     20       0     0     45       0     35       35     100       65     100       75     100	Percent Mortality       0 hours         24 hr       48 hr       °C       mg/l         0       0       20       8.5         0       0       45         0       35       35         35       100         65       100         75       100	Percent Mortality  Temp. D.O. a mg/l pHb  0 0 20 8.5 8.2  0 0 0  0 45  0 35  35 100  65 100  75 100	Mortality         Temp. or mg/l mg/l         D.O. a mg/l         Temp. or	Percent Mortality         O hours         48 hours           Temp. oc mg/l         D.O. a mg/l         Temp. oc mg/l         D.O. a mg/l           0         0         20         8.5         8.2         20         8.5           0         0         0         20         8.6         20         8.6           0         45         0         35         20         8.6           35         100         20         8.6         8.6           65         100         20         8.6           75         100

 $<sup>^{\</sup>mathrm{a}}$ Dissolved oxygen concentrations - Dissolved Oxygen System (YSI Model 54).

NOTE: Dissolved oxygen saturations at the test temperatures of 20°C is 9.2 mg/l.

 $<sup>^{\</sup>rm b}_{\rm pH}$  - pH Probe (Corning Model 476182) used with a Corning Model 125 pH and mV meter.

### LITERATURE CITED

- (1) Committee on Methods for Toxicity Tests with Aquatic Organisms. Methods of Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians. 1975. U.S. EPA, Ecol. Res. Ser. 660/3-75009.
- (2) American Public Health Association. 1980. Standard Methods for the Examination of Water and Wastewater. 15th ed. Washington, DC. 1134 p.
- (3) Pennak, R. W. 1978. Freshwater Invertebrates of the United States. John Wiley & Sons, New York, 2nd ed. 803 p.
- (4) Stephan, C. E., K. A. Busch, R. Smith, J. Burke and R. W. Andrews. 1978. A Computer Program for Calculating an LC<sub>50</sub>. U. S. Environmental Protection Agency, Duluth, Minnesota, pre-publication manuscript, August, 1978.
- (5) (a) U.S. Food and Drug Administration. 1978. Nonclinical Laboratory Studies, Good Laboratory Practice Regulations (21 CFR, Part 58). Federal Register, Vol. 43, No. 247:59986-60025.
  - (b) U.S. Environmental Protection Agency. 1983. Pesticide Programs; Good Laboratory Practice Standards; Final Rule (40 CFR, Part 160). Federal Register, Vol. 48, No. 230:53946-53969.
  - (c) U.S. Environmental Protection Agency. 1983. Toxic Substances Control; Good Laboratory Practice Standards; Final Rule (40 CFR, Part 792). Federal Register, Vol. 48; No. 230:53922-53944.
  - (d) Organization for Economic Cooperation and Development. 1981. OECD Guidelines for Testing of Chemicals, Principles of Good Laboratory Practice Annex 2, C(81) 30(Final):7-28.

#### QUALITY ASSURANCE STATEMENT

Quality Assurance Statement for final report #34978 entitled, "Acute Toxicity of UC 54012 25WP to Daphnia magna," for Dr. Thomas L. Merriam, Union Carbide Agricultural Products Company, Inc.; Research Triangle Park, North Carolina.

In accordance with ABC Laboratories' intent that all studies conducted at our facilities are designed and function in conformance with good laboratory practice regulations and the protocols for individual laboratory studies, an inspection of the final report for UC 54012 25WP was conducted and found to be in acceptable form by a member of our Quality Assurance Unit. A procedure audit was conducted on August 14, A final inspection of all data and records on August 25, 1986, indicates that the report submitted to you is an accurate reflection of the study as it was conducted by ABC Laboratories.

Should you have any questions relating to the information provided in this statement or the function of our Quality Assurance Unit, please contact the Quality Assurance Unit at your convenience.

Dulks III parkle 8/28/84

Quality Assurance Supervisor

## STUDY COMPLIANCE STATEMENT

Study Compliance Statement for ABC report #34978 entitled, "Acute Toxicity of UC 54012 25WP to <u>Daphnia magna</u>," for Dr. Thomas L. Merriam, Union Carbide Agricultural Products Company, Inc.; Research Triangle Park, North Carolina.

In accordance with ABC Laboratories' intent that all aquatic toxicity tests conducted by our facility follow good laboratory practices, ABC's study director for the above test herein confirms that the study was conducted in compliance with the U.S. E.P.A. Good Laboratory Practice Standards; Pesticide Programs (40 CFR 160).

All original raw data were sent to Union Carbide Agricultural Products Company, Inc., with a copy retained at Analytical Bio-Chemistry Laboratories.

Alan D. Forbis

ABC Study Director

Sbelsa Date



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

William C. Kuryla, Ph.D. Associate Director, Product Safety Union Carbide Corporation 39 Old Ridgebury Road Danbury, Connecticut 06817-0001

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

APR 1 0 1995

EPA acknowledges the receipt of information submitted by your organization under Section 8(e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) are enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned 8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "SPA Information Requests".

All TSCA 8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should already contain information supporting confidentiality claims. This information is required and should be submitted if not done so previously. To substantiate claims, submit responses to the questions in the enclosure "Support Information for Confidentiality Claims". This same enclosure is used to support confidentiality claims for non-CAP submissions.

Please address any further correspondence with the Agency related to this TSCA 8(e) submission to:

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Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

Timy R. C. B.

Terry R. O'Bryan Risk Analysis Branch

Enclosure

12045A



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RE-T-R	NO (CONTINUE)	ONGOING REVIEW YES (DROP/REFER)	01 02 04 0216 01 02 04 0217 01 02 04 0218 01 02 04 0218 01 02 04 0222 01 02 04 0222 01 02 04 0223 01 02 04 0223 01 02 04 0223 01 02 04 0223 01 02 04 0223 01 02 04 0223 01 02 04 0223	F C INF	OTS DATE: 10 14	Carbide
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